Patent Application

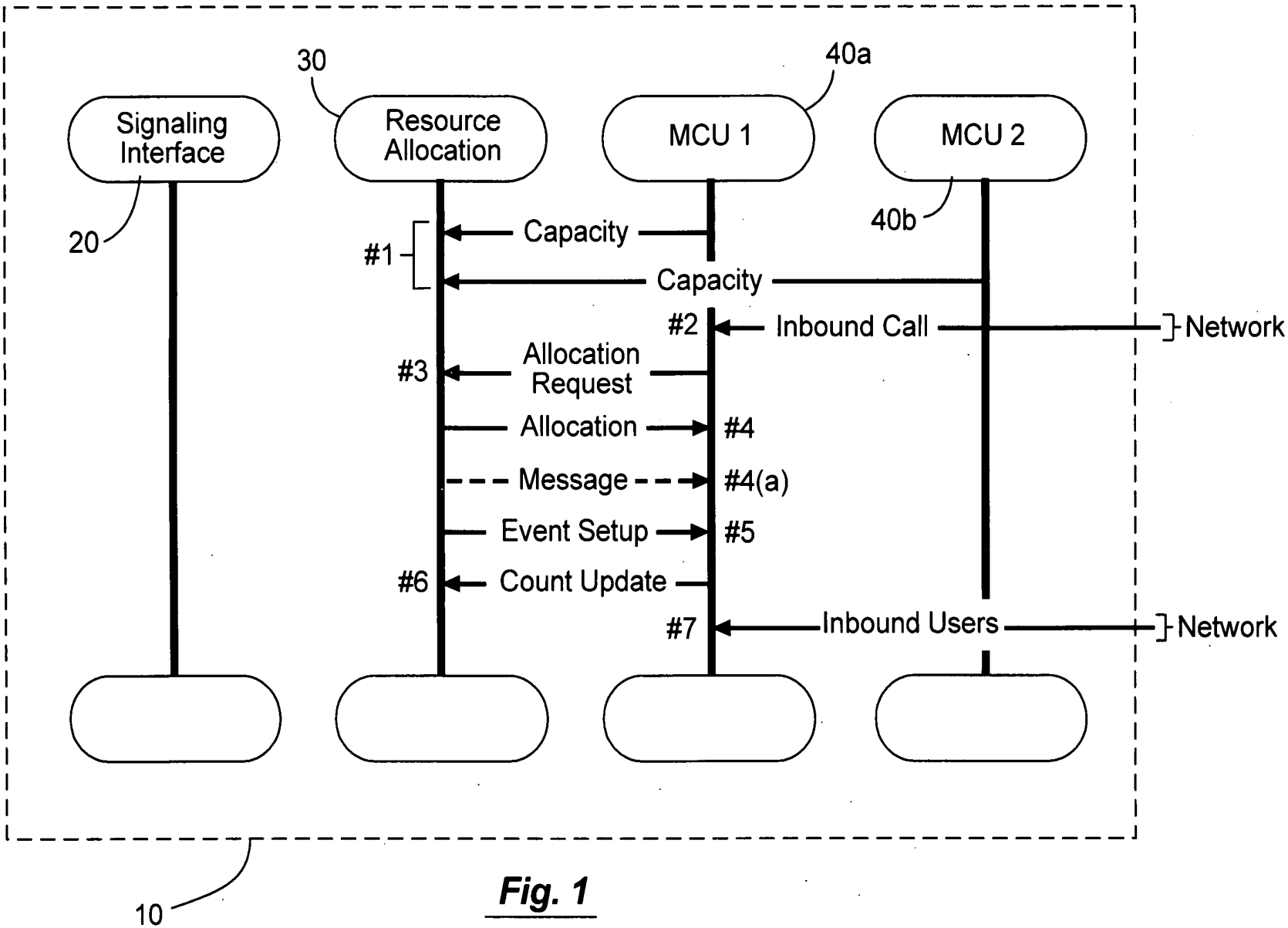

Fig. 1

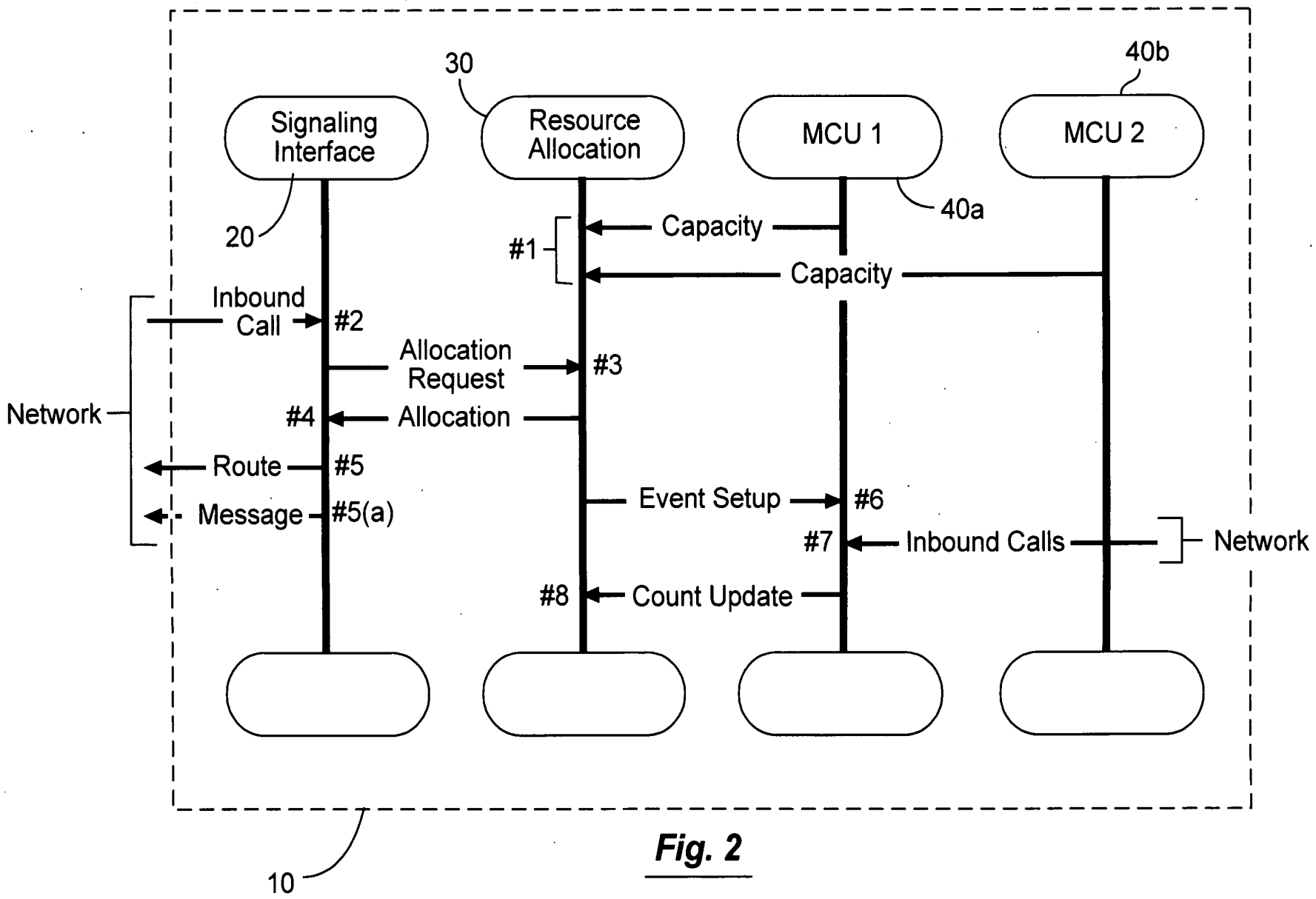
30
40b
Signaling Interface
Resource Allocation
MCU 1
MCU 2
20
40a
#1
Capacity
Capacity
Inbound Call
#2
Allocation Request
#3
Network
#4
Allocation
Route
#5
Message
#5(a)
Event Setup
#6
#7
Inbound Calls
Network
#8
Count Update
10

Fig. 2

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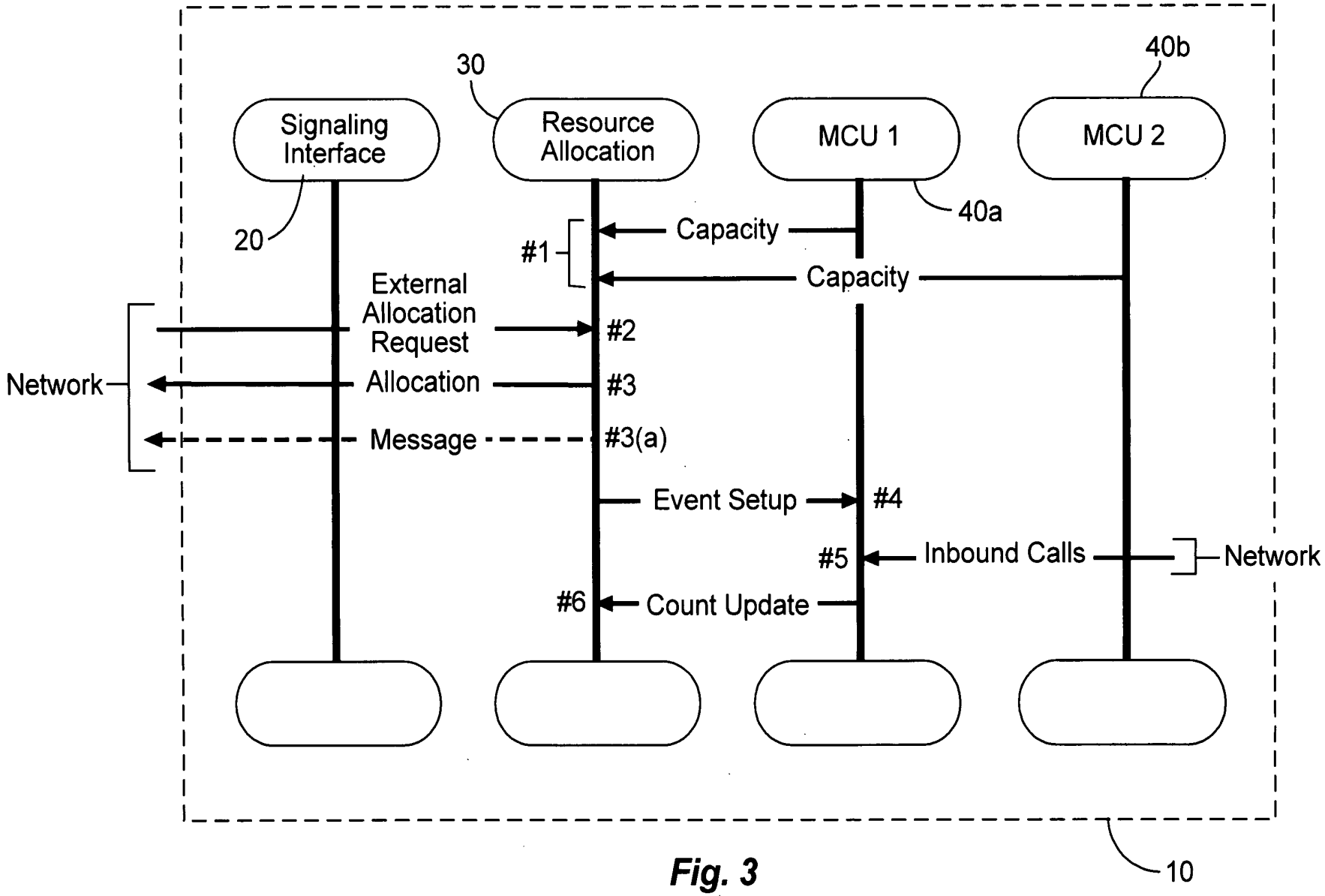

Fig. 3

Modeling Table					
Modeling Interval j	1	2	3	...	j
Probability P_j	P_1	P_2	P_3	...	P_j

Figure 4

Accumulation Table			
Event Counter	Resource Accumulators $\left(R_j\right)$		
w	R_1	R_2	R_3

Figure 5

Modeling Table			
Modeling Interval j	1	2	3
Probability P_j	P_1	P_2	P_3

Figure 7

Tuning Table				
		Normalized Resource Accumulations $\left(\overline{R}_{i,j}\right)$		
Tuning Interval (i)	Event Counter (w_i)	$\overline{R}_{i,1}$	$\overline{R}_{i,2}$	$\overline{R}_{i,3}$
1	w_1	$\overline{R}_{1,1}$	$\overline{R}_{1,2}$	$\overline{R}_{1,3}$
2	w_2	$\overline{R}_{2,1}$	$\overline{R}_{2,2}$	$\overline{R}_{2,3}$
3	w_3	$\overline{R}_{3,1}$	$\overline{R}_{3,2}$	$\overline{R}_{3,3}$

Figure 6

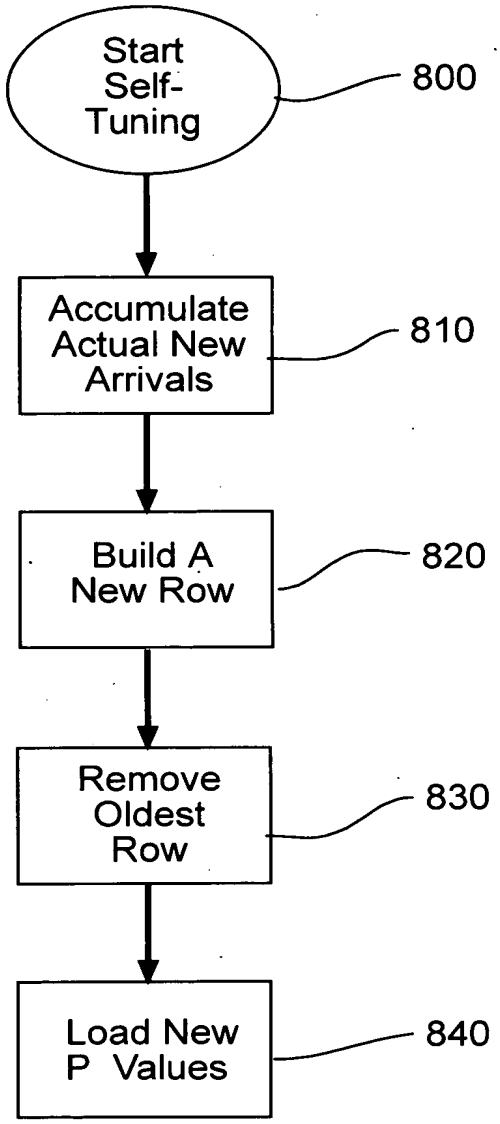
Start Self-Tuning
800
Accumulate Actual New Arrivals
810
Build A New Row
820
Remove Oldest Row
830
Load New P Values
840

Fig. 8

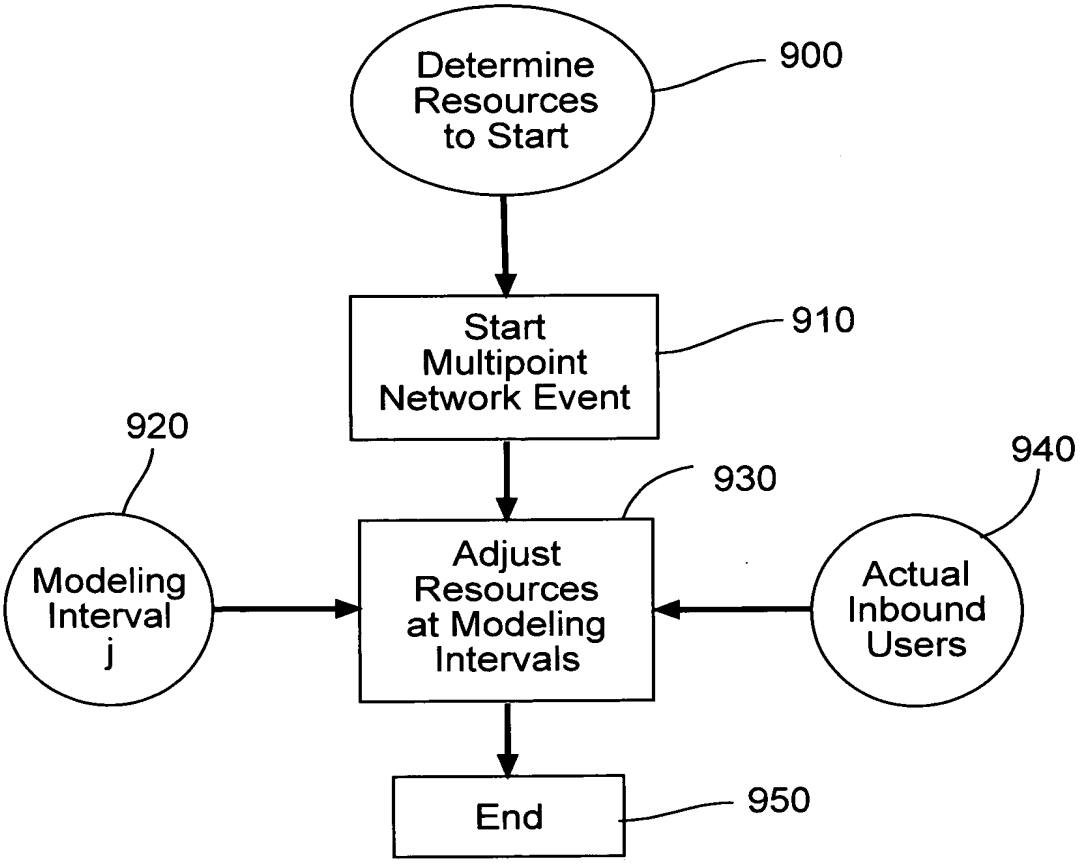
Determine Resources to Start
900
Start Multipoint Network Event
910
920
Modeling Interval j
930
Adjust Resources at Modeling Intervals
940
Actual Inbound Users
End
950

Fig. 9

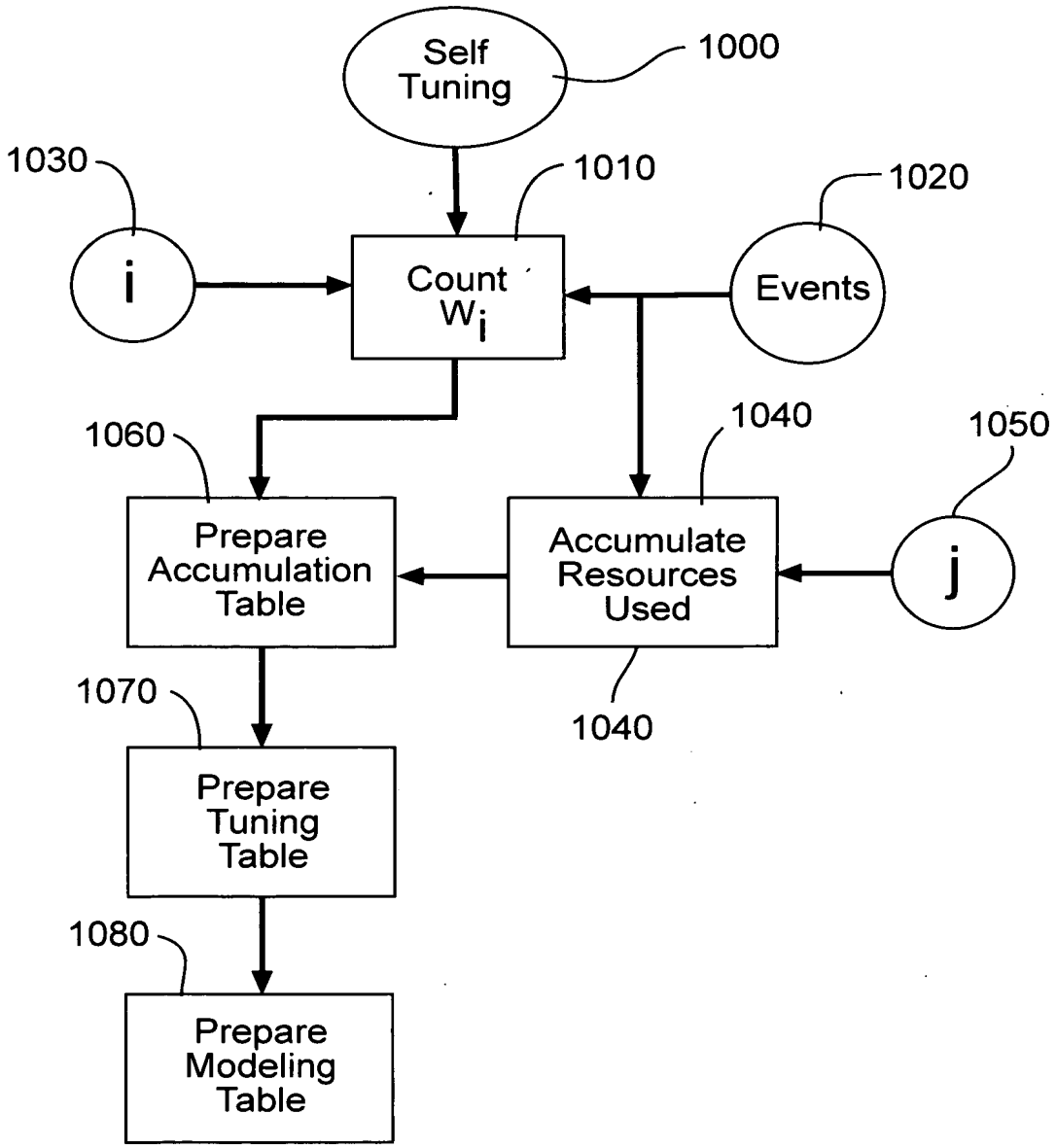
Self Tuning
1000
1030
1010
1020
i
Count W_i
Events
1060
1040
1050
Prepare Accumulation Table
Accumulate Resources Used
j
1040
1070
Prepare Tuning Table
1080
Prepare Modeling Table

Figure 10